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Amended Claims

1. A method for marking a material, preferably a liquid, the method comprising the steps of:
 - a) identifying at least one ion comprised in the said material at a concentration level of below 50 ppm in the unmarked state;
 - b) selecting a marking composition comprising at least one ion as identified in step a), and preferably selecting a said ion from the groups of ions being comprised in standard sea water;
 - c) incorporating the marking composition of step b) into the said unmarked material;
 wherein the concentration level of the said at least one ion in the marked material is increased in step c) by at least the factor of 3, preferably of 5 and even more preferred of 8 as compared to the concentration level of the ion present in the unmarked material.
2. A method for marking and identifying the authenticity of material, preferably an aqueous or non-aqueous liquid, the method comprising the steps of:
 - a) Marking a material according to the method of claim 1, the altered concentration level of the at least one ion being defined as a reference value;
 - b) measuring in the marked material the individual concentration of the said at least one ion by the means of a sensor; and
 - c) comparing the measured value with at least one reference value and indicating the result of the comparison.
3. A method according to one or more of claims 1 or 2, wherein, prior to step a), the concentration level of at least one ion in the unmarked material is determined.

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4. A method according to one or more of claims 1 to 3, wherein said marking composition comprises at least one salt of the group comprising inorganic salts and organic salts.
5. A method according to one or more of claims 1 to 2, wherein said ion is an inorganic anion.
6. A method according to one or more of claims 1 to 5, wherein said ion is an anion selected from the group comprising fluoride, chloride, bromide, iodide, borate, carbonate, nitrate, phosphate, sulfate, and selenate.
7. A method according to one or more of claims 1 to 6, wherein said ion is an inorganic cation.
8. A method for marking a material according to claim 7, wherein said ion is an cation selected from the group comprising ammonium(+), lithium(+), sodium(+), potassium(+), rubidium(+), cesium(+), magnesium(2+), calcium(2+), strontium(2+), barium(2+), iron (2+/3+), cobalt(2+), nickel(2+), copper(2+), and zinc(2+).
9. A method according to one or more of claims 1 to 8, characterised in that the material is an alcoholic beverage, a perfume, a cosmetic product, a drug or pharmaceutical ingredient.
10. A method of identifying the authenticity of a material, the material being marked according to a method according to one or more of claims 1 or 3 to 9, the method comprising the steps of:
 - a) providing reference values of at least one ion comprised in a marking composition which has been added to the material;

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- b) measuring by the means of a sensor an individual concentration of at least one ion in a material to be identified, the sensor being capable of measuring individual concentration values of the ionic compound; and
- c) comparing the measured value with at least one reference value and indicating the result of the comparison.

11. The method of one or more of the claims 2 to 10, characterised in that the sensor is an electrochemical sensor, preferably an ion-selective electrode.

12. The method according to claim 11, characterised in that the ion selective electrode is a multi-ion-selective electrode.

13. The method according to one or more of claims 2 to 10, characterised in that the sensor is a ion-selective Field Effect Transistor.

14. The method according to one or more of claims 2 to 13, characterised in that the measuring step is performed as a field audit analysis.

15. The method according to one or more of claims 2 to 14, characterised in that the method further comprises the step of an off-the-field laboratory analysis for confirmation of a field audit analysis.

16. The method according to claim 15, characterised in that the off-the-field laboratory analysis is performed by analytical methods comprising atomic absorption spectroscopy (AAS), ion chromatography (IC), mass spectrometry (MS), or combinations thereof.

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17. A marked material, preferably a marked foodstuff or drink, a marked pharmaceutical or a marked cosmetic product, obtained according to a method according to one or more of claims 1 or 3 to 10, characterised in that the concentration of the ions incorporated in the marked material, the said ions being comprised in said marking composition, is non-toxic with respect to human or animal use.

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